



LANDAU
ASSOCIATES,
INC.

Environmental and Geotechnical Services

COLSF 814 VI

March 14, 1994

Mr. Mike Kuntz
Washington State Department of Ecology
P.O. Box 47600
Olympia, WA 98504-7600

**RE: COLBERT LANDFILL RD/RA
MONTHLY PROGRESS REPORT
FEBRUARY 1994**

Dear Mr. Kuntz:

Presented herein is the progress report for the Colbert Landfill Remedial Design/Remedial Action Superfund project for the month of February 1994, which was prepared by Landau Associates, Inc., Spokane County's engineering consultant. This progress report addresses the reporting requirements specified in Section XI of the project Consent Decree, including:

- Remedial action activities commenced or completed during the reporting period
- Remedial action activities projected to be commenced or completed through March 31, 1994
- Any problems that were encountered or are anticipated.

1.0 ACTIVITIES COMMENCED/COMPLETED DURING REPORTING PERIOD

- The remedial action (RA) facilities construction contractor, Humphrey Construction, Inc. (Humphrey), continued to complete the work without significant deviation from its revised schedule. Landau Associates was onsite continuously to observe construction of RA facilities. Installation of the air stripping tower components and associated process equipment was completed. Installation continued on electrical transformers, services, metering facilities, switch gear, and motor control centers. Chemical resistant coating was installed in air stripper and batch cleaning storage tank containment structures located at the treatment facility. The batch cleaning storage tank was installed in its containment structure. Software programming continued for the instrumentation, control, and monitoring systems. Radio telemetry antenna poles were installed and installation of the antennas and antenna cabling was 25 percent completed. Erection of the treatment facility metal building and shed was completed. Ancillary building components, including nonstructural walls, doors, door frames, window frames, dry wall, plumbing, electrical, and miscellaneous finish work was commenced and was 75 percent completed. Installation of the treatment facility process piping and equipment was commenced and was 75 percent completed. Outfitting of groundwater extraction well vaults piping and extraction pumps is complete; installation of instrumentation and electrical systems were 25 percent completed.

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- Ershigs (the air stripping system supplier) supervised and assisted Humphrey Construction during the installation of the air stripping equipment. The air stripper process fan was tested and verified to be consistent with the factory test data for capacity and pressure; vibration was measured and determined to be consistent with the factory tests and the industrial standards specified for the fan. Ershigs' test plans for operational demonstration and performance testing of the air stripping system were submitted, review and returned to Ershigs for correction. Ershigs submitted their Health and Safety Plan to be in force during their testing. Temporary piping and equipment were installed to accomplish closed loop recirculation of potable water through the air stripping tower to prewet the packing. Closed loop recirculation of potable water commenced on February 24 and is planned to continue until April 10.
- Representatives from Ecology and Landau Associates met on February 15 to discuss a very preliminary draft of the substantive NPDES requirements. Ecology submitted a revised preliminary draft of the substantive NPDES requirements to Spokane County on February 28. Presentation of the specific draft substantive NPDES was cancelled from the public project status meeting scheduled for March 3.
- Landau Associates continued preparation of the facility operation and maintenance plan. Humphrey Construction and Ershigs continued to prepare equipment specific operations and maintenance manuals for the equipment and facilities furnished and installed by each contractor respectively.

2.0 ACTIVITIES/PROJECTS TO BE COMMENCED/COMPLETED DURING THE NEXT REPORTING PERIOD

Progress reports will be submitted monthly until construction is complete, as prescribed in the project Consent Decree; consequently, the next reporting period will extend through March 31, 1994. Anticipated activities for March include:

- Continuing remedial action construction. Anticipated construction activities include:
 - Finalize operational testing and system validation test plans prepared by Humphrey Construction and Ershigs.
 - Complete construction of remaining treatment facility process, electrical, instrumentation, fire alarm, and security alarm systems.
 - Completion of closed loop operational and performance testing of the air stripping system. Confirmatory sampling and chemical analysis will be accomplished by the County's independent state certified laboratory, Columbia Analytical.
 - Complete installation of electrical services to the extraction wells, and telephone service to treatment facility.
 - Complete installation of instrumentation systems at the treatment facility and at the extraction wells.

- A public project status update meeting was held on March 3, 1994 at Mead High School in Spokane.
- Finalize the NPDES discharge monitoring requirements with Ecology and EPA.
- Continue preparation of the Operation and Maintenance Plan and Manual for the remedial action facility. Submission of the Operations and Maintenance Plan to EPA and Ecology for review is anticipated for March 1994.

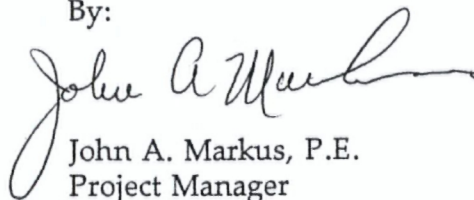
3.0 ENCOUNTERED/ANTICIPATED PROBLEMS

Construction is progressing and is anticipated to be substantially complete by April 10, 1994. Spokane County and Landau Associates conducted special progress meetings with the contractor to emphasize the importance of getting the construction work completed on schedule and to ensure that all appropriate means are employed to complete the project on schedule. Start-up, operational and system validation testing by Humphrey Construction is scheduled to be complete on April 30. Additional start-up related activities including groundwater interception system and treatment system optimization will continue for approximately one or two months following completion of construction, and it is anticipated that the remedial action will be fully operational by June 1994. Definition of the substantive NPDES requirements and implementation of the testing program are still pending issues.

This report describes progress on only the primary project remedial action activities. There are peripheral activities associated with the primary activities which are not described herein. If clarification is required for any of the activities presented in this progress report, or if additional information is desired for peripheral activities, please contact Landau Associates or Dean Fowler (Spokane County).

LANDAU ASSOCIATES, INC.

By:


John A. Markus, P.E.
Project Manager

JAM/jam
No. 124002.120

cc: Neil Thompson, U.S. Environmental Protection Agency
Dean Fowler, Spokane County
Lyle Diedieker, Ecology & Environment, Inc.